

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Tatsuya TAKAHASHI

Serial No: 09/995,319

Filed: November 26, 2001

For: CHARGE TRANSFER DEVICE



RECEIVED

Art Unit: 2612

Examiner: Not Assigned

Commissioner for Patents  
Washington, D.C. 20231

APR 09 2003

Technology Center 2600

Dear Sir:

Transmitted herewith is an amendment in the above-identified application.

- ☐ Small entity status of this application under 37 C.F.R. 1.9 and 1.27 has been established by a verified statement previously submitted.
- ☐ A verified statement to establish small entity status under 37 C.F.R. 1.9 and 1.27 is enclosed.
- ☐ A Notice Of Change Of Attorney's Address and Associate Power Of Attorney is enclosed.
- ☒ No additional fee is required.

The fee has been calculated as shown below:

	(Col. 1) CLAIMS REMAINING AFTER AMENDMENT		(Col. 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Col. 3) PRESENT EXTRA*	LG/SM \$ ENTITY FEE		ADD'L FEE DUE
TOTAL CLAIMS FEE	15	-	20**	0	LG=\$18 SM=\$9	\$18	\$ 0
INDEPENDENT CLAIMS FEE	2	-	3***	0	LG=\$84 SM=\$42	\$84	\$ 0
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIMS					LARGE ENTITY FEE = \$280 SMALL ENTITY FEE = \$140		\$ 0
TOTAL							\$ 0

\* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box on Col. 1 of a prior amendment or the number of claims originally filed.

- ☐ A check in the amount of \$ -0- to cover the additional claims fee is enclosed. **A copy of this sheet is enclosed.**
- ☐ A check in the amount of \$ -0- to cover the extension fee is enclosed. **A copy of this sheet is enclosed.**
- ☒ The Commissioner is hereby authorized to charge any deficiencies of fees associated with this communication or credit any overpayment to Deposit Account No. 50-1314. **A copy of this sheet is enclosed.**
- ☒ Any filing fees under 37 C.F.R. 1.16 for the presentation of extra claims
- ☒ Any patent application processing fees under 37 C.F.R. 1.17

Respectfully submitted,  
HOGAN & HARTSON, P.C.By: Anthony J. Orlor  
Registration No. 41,232  
Attorney for Applicant(s)

Date: April 1, 2003

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PATENT  
81784.0246

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

3/9 re A  
4-1503

In re application of:

Tatsuya TAKAHASHI

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PRELIMINARY AMENDMENT

Commissioner for Patents  
Washington, D.C. 20231

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Technology Center 2600

Dear Sir:

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents  
Washington D.C. 20231, on

April 1, 2003

Date of Deposit

Anthony J. Drier, Reg. No. 41,232

Name

Signature

04/01/03  
Date

Prior to the first Office Action in the present application, please enter and consider the following amendments and remarks:

IN THE SPECIFICATION:

Please replace the paragraph on page 1, starting at line 16 with the following text:

The information charges are then converted into an image signal, which is a voltage signal and which is supplied, as an input, to an output amplifier 8. The output amplifier 8 is a source follower amplifier circuit in which a transistor is used for the load of a source and which, in this case, includes interconnected three-stage source followers. Each source follower circuit is connected between a power source  $V_D$  and ground GND. An output signal from the floating diffusing layer 6, or a source follower output at the previous stage, is input to a gate of each of transistors  $T_{D1}$ ,  $T_{D2}$ ,  $T_{D3}$  for amplification. To a source of each of the transistors  $T_{D1}$ ,  $T_{D2}$ ,  $T_{D3}$ , a drain of each of load transistors  $T_{L1}$ ,  $T_{L2}$ ,  $T_{L3}$  is connected. These load transistors function as a constant current source for supplying a constant current